

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-003204**Date Inspected:** 15-Apr-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies (OBG).**Bid Item:** 77,78,79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

L-Splices (12 Each), NOI Number 6207: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L-Splices (12 Each). Test results recorded x3 surface profile readings in the range of 72 to 84 µm. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Shim Plates 20TR2 (20 Each), L-Splices 20TR2 (4 Each) and Suspender Bracket Top Closure Plates (24 Each), NOI Number 6211: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Shim Plates 20TR2 (20 Each), L-Splices 20TR2 (4 Each) and Suspender Bracket Top Closure Plates (24 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to holidays and high DFT readings.

12BE&12CE Internal Ceiling and 12BW&12CW Internal Ceiling, NOI Number 6212: In preparation for

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undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 12BE&12CE Internal Ceiling and 12BW&12CW Internal Ceiling. For 12BE&12CE Internal Ceiling, ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to the presence of oil and grease on substrate. No other discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers Internal Surfaces (4 Each), NOI Number 6213: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barriers Internal Surfaces (4 Each) for dry film thickness (DFT) compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Facade Cover Plates (35 Each), NOI Number 6214: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives recorded the results of adhesion testing on Façade Cover Plates (35 Each). ABF Quality Assurance personnel recorded x2 readings (12.41 mPa 60% c 40% gf and 9.01 60% c 40% gf). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

12BE&12CE Internal Ceiling, NOI Number 6215: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 12BE&12CE Internal Ceiling. No other discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Façade Cover Plates (18 Each), NOI Number 6216: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Façade Cover Plates (18 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT), ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub) and ISO 11127-6 and ISO 11127-7 for the presence of soluble salts. All test results were acceptable and within desired limits with x3 MEK @ grade 5 and x1 soluble salts reading of (10.9 µs/cm). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers External Surfaces (10 Each), NOI Number 6217: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Crash Barriers External Surfaces (10 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT), ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub) and ISO 11127-6 and ISO 11127-7 for the presence of soluble salts. All test results were acceptable and within desired limits with x2 MEK @ grade 5 and x1 soluble salts reading of (10.6 µs/cm). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers External Surfaces (2 Each), NOI Number 6218: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Crash Barriers External Surfaces (2 Each). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

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Bike Path Panels (3 Each), Splices X4077 (114 Each), Splices X4068 (204 Each) and West Anchor Plate WAAD-001 (4 Each), NOI Number 6220: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Bike Path Panels (3 Each), Splices X4077 (114 Each), Splices X4068 (204 Each) and West Anchor Plate WAAD-001 (4 Each) in preparation for blasting operations. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection Splices X4077 (114 Each), Splices X4068 (204 Each) and West Anchor Plate WAAD-001 (4 Each) due to the presence of oil and grease on substrate. No other discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Bike Path Panels (3 Each), Splices X4077 (114 Each), Splices X4068 (204 Each) and West Anchor Plate WAAD-001 (4 Each), NOI Number 6221: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Bike Path Panels (3 Each), Splices X4077 (114 Each), Splices X4068 (204 Each) and West Anchor Plate WAAD-001 (4 Each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

This Quality Assurance Inspector (QA) reviewed, recorded and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

Inspected By:	Cason,Kenneth	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer
